Alfredo Perez

Sed Lab

Linux Administration

1. Change the name Jon to Jonathan.

sed -e 's/Karen/Linda/g' datebook

Text

Description automatically generated

We are using s to substitute the name

2.Delete the first 3 lines.

Sed -e '1,3d' datebook

Text

Description automatically generated

1,3 are the lines that we want to remove with d

3. Print lines 2 through 4.

sed -n -e '2,4p' datebook

Text

Description automatically generated

2,4 are the lines we are looking for and p is to print

4. Delete lines containing Place.

sed -e '/Place/d' datebook

Text

Description automatically generated

Place is what we are looking for and d will erase

5. Print all lines where the birthdays are in April or November.

sed -rn '/^[^:]\*:[^:]\*:[^:]\*:(4|11)\//p' datebook

Text

Description automatically generated

We use ^ multiple times to specify what we want to change, 4 is April and 11 is November.

6. Append three asterisks to the end of lines starting with Zippy.

sed -e '/^Zippy/a\\*\*\* ' datebook

Text

Description automatically generated

^Zippy is to ensure the line starts with Zippy, appended /a with 3 \*

7. Replace the line containing Popeye with the phrase "I yam what I yam an' tha's all I yam"

sed -e 's/Popeye/I yam what I yam an' tha's all I yam/g' datebook.txt

Text

Description automatically generated

Popeye is what we are looking for and we replace with /I yam what I yam an' tha's all I yam\.

8. Change Sir Lancelot 's birthday to 12/31/1999 . Assume you don't know Lancelot's original birthday. Use a regular expression to search for it.

sed '/^Sir Lancelot:/s/:[^:]\*\(:[^:\/]\*\)$/:12\/31\/1999\1/' datebook

Text

Description automatically generated

Sir Lancelot ^ searches for the name, the /s white space and numbers are searching for the birthday, The second half changes it to his birthday of 12/31/1999

9. Delete all blank lines.

sed '/^$/d' datebook

Text

Description automatically generated

^is for the beginning anchor $ flags the end of the string, d for erase

10. Write a sed script that will (actual sed script, NOT just the commands on the command line)

1. Insert above the first line the title - Looney Tunes -.

sed ‘1i -Looney Tunes-‘ datebook

1. Remove the duplicate lines

Sed ‘/$0/d’ datebook

1. Print the contents of the file with the first name then the phone number.

sed 's/\([[:alpha:]]\+\) \([[:alpha:]]\+\):.\*/\1 \3/' datebook

We use alpha to make sure any letter on the file is not missed whether it’s Upper case or not, “1” is the first name and “3” is the phone number. I had to use a lot of special characters (:, \*, + etc..) since I wasn’t getting results with a much simpler code.

d. Append at the end of the file "That's all Folks!"Text

Description automatically generated

sed ‘$a/that’s all folks’ datebook

Text

Description automatically generated

Source

<https://regexr.com/>

<https://regexone.com/>